



Traditional Tribal K	inowledge
■ Space and place	
■ Relationship of people to th	eir place
■ Interrelationships	
	<u></u>

## National Environmental Policy Act of 1969

The purposes of this chapter are:

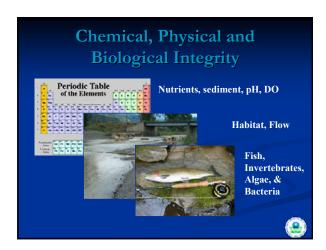
- To declare a national policy which will encourage productive and enjoyable harmony between man and his environment;
- To promote efforts which will **prevent or eliminate damage to the environment** and biosphere and stimulate the health and welfare of man;
- To enrich the understanding of the ecological systems and natural resources important to the Nation and
- To establish a Council on Environmental Quality



## Clean Water Act (CWA) (Federal Water Pollution Control Act)

The objective of this Act is to restore and maintain the chemical, physical, and biological integrity of the Nation's waters





## 

## Why Is Water Quality Important? Critical & vital resource Drinking water Recreational resource Cultural resource Wildlife habitat Public health concerns

# CWA 100s – Policy, programs and special projects ■ 104(b)3 make grants to agencies, institutions or other organizations ■ 106 appropriations for States and Tribes

## **CWA**

- 200s Construction grants for water treatment
  - 201 authorization to make grants to Tribes
  - 208 water planning community process to control



### **CWA**

- 300s Standards and Enforcement
  - 301 effluent limits
  - 303 water quality standards
    - ■(d) nonattainment, TMDLs
  - 305(b) Report to Congress (fishable swimable)
  - 319 Nonpoint Source Management Programs

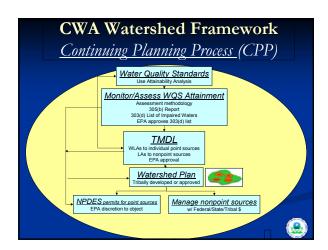


### **CWA**

- 400s Permits and Licenses
  - 401 certification that WQS will be met
  - 402 NPDES permits
  - 404 permits for dredged or fill material (Army Corps of Eng)









## EPA's Strategic Plan Clean and Safe Water

- Restore and maintain America's wetlands and watersheds and their associated ecosystems to protect public health, support economic and recreational activities and provide healthy habitat for fish, the environment
  - Water safe to drink
  - Fish safe to eat
  - Water safe for swimming
- Improve water monitoring networks



## Measure N

Show an improvement in water quality from baseline in at least one parameter in stations.



## Establish Baseline Monitoring Program

 Select water quality indicators and reporting parameters to be monitored

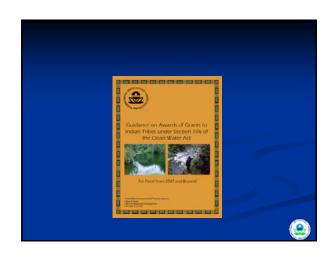
 Fundamental
 Intermediate
 Mature

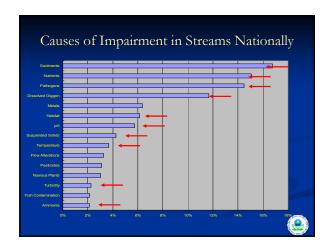
 Dissolved Oxygen
 Total Phosphorus
 Macroinvertebrates

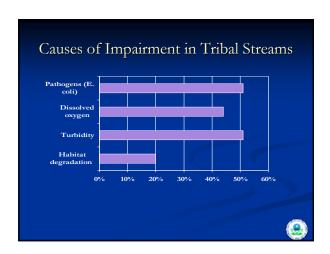
 pH
 Total Nitrogen
 E. voli or enterococci

 Temperature
 Basic Habitat
 Information

 Turbidity
 Turbidity







## **Opportunities** ■ Demonstrate results achieved

- Implement guidance designed for Tribes
- Establish consistent national program guidelines

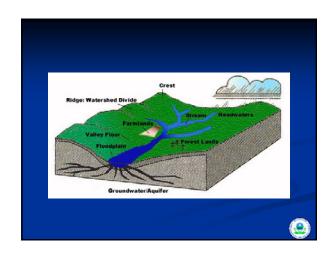


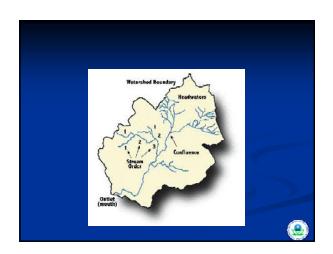
## Opportunities (continued)

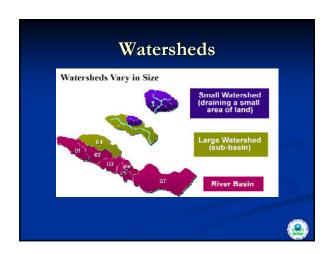
- Justify and compete for resources
  - \$3M in early 1990s to \$24M in FY05 (national)
- Create smoother path for other Tribes
  - New grantees eligible every year
  - 7 new Tribes eligible in 2005
  - Since FY2000, eligible Tribes has increased by 62%
  - - ■229 nationwide

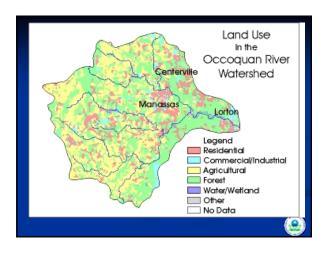


# Watershed Plan









## Watershed Planning Steps

- 1. Build partnerships
- 2. Characterize the watershed
- 3. Finalize goals and identify actions
- 4. Design an implementation program
- 5. Implement watershed plan
- 6. Measure progress and make adjustments



## Other Plans to Use - integrate Waste water Area wide Waste Management Plan Wetlands Wetlands Protection Plan Drinking Water Source Water Protection Plan Ground Water Ground Water Protection Plan Brownfields Targeted site assessments Underground Injection Control UICs - septic tanks Conservation Plan (NRCS) Grazing Management Plan Woodland Conservation Plan Wildlife Habitat Plan

Comprehensive Nutrient Management Plan

## USDA - Natural Resources Conservation Service

- Program Highlights
  - \$ Wildlife Habitat Incentives Program (WHIP)
  - \$ Wetlands Reserve Program (WRP)
  - \$ Environmental Quality Incentives Program (EQIP)

    Plant Materials Center

Resource Conservation and Development (RC&D)



## Electronic Copies of Water Quality Data

- Monitoring data, submitted electronically, for each assessed surface water body
  - Data and Metadata
    - Water body name
    - Latitude/longitude location of sites
    - Name of the watershed
    - Parameters monitored and results
    - Etc.

Monitoring Parameters	
Fundamental	Dissolved Oxygen
	рН
	Temperature
	Turbidity
Intermediate	Total Phosphorus
	Total Nitrogen
Mature	Macroinvertebrates
	E. Coli or enterococci
	Basic habitat information

## Pyramid Lake Paiute Indian Reservation WQ Monitoring Program Developed Watershed Management Plan for NPS pollution control Designed implementation of management measures (fencing and alternate water sources) to prevent uncontrolled cattle grazing urbidity from soil crossion nutrient loads loss of native vegetation destabilized streambanks Monitored to assess and track the impacts of onthe-ground NPS projects on water quality

## Santa Rosa Ranchera Plan SKY – EARTH - WATER

- Air quality
- Soil quality (toxic salt levels)
- Surface/Groundwater quality and quantity protection
- Soil contamination by toxic substances
- Drinking water quality
- Dog immunization/licencing programs
- Culturally significant plants
  - http://www.tachi-yokut.com/EPA/theplan.htm



